SKILL 9
SKILLS FOR LIFE

Full Stack Java

Development

3 Months & 8 Technologies
"Become a Full Stack Java developer"

Transform your future with our education

SKILL9 Universal Academy
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Why take this course?

- **Designed for Graduates/Under Graduates or job seekers and professionals who wants to enhance their technical knowledge**
- **Studying/Studied GRADUATION**
- **Any Graduate/engineer who is interested in Coding Freshers/Graduates**
- **Non-programming engineers**

In addition Course helps you

- **Improve your logical thinking: Improve your problem-solving abilities**
- **Improve your searching skills: Understand how software applications work**
- **Find a nice and well-paid job; Improve your self-confidence**
- **100% JOB ASSISTANCE after completion of course to make your Profile reach to Hundreds of Recruiters in our network and with the company we have tie up**

Features

- **Real-Time Projects**
- **Hand's On Experience**
- **Mock Tests and Mock Interviews**
- **Daily Assignments and Seminars**

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Web Technology

Web Technology

- Introduction to Web-technology
- What is web?
- What is network?
- What is internet?
- What is web-development?
- What is browser?
- What is web-server?
- What is http?
- What is the use of http?
- What is html?
- What is website?
- What is web-page?
- Structure of Web
- Definition of all the points
- Install of Editors
- How to write program using editors

Table

- How to create table in Html
- Attributes of table
- Example

HTML-5

- Introduction:
- Structure of html
- What is tags?
- Types of tags
- Attributes
- All tags attributes
- How to apply all the attributes in web-pages

List

- How to create list
- . Attributes of list
- . Example

Audio/Video

- Attributes of audio/video tag
- How to create audio page
- How to create video page

I-frame

- What is nested web-page?
- How to create nested web-pages
- Attributes of nested web-pages

SVG

- How to define graphics in html
- Attributes of SVG

Form

- What is form
- How to create forms using html
- How to create log-in page
- How to create registration page using form
- Attributes of form

CSS-3

- Introduction:
- What is css?
- What is the use of css?
- Types of css
- How to call css inside html pages

Background

- How to set background properties
- Attributes for background

Box-Mode

- What is box-model in css
- How to work with box-model

Pseudo-class & Pseudo-elements

- What is pseudo-class?
- What is pseudo-elements
- Types of pseudo-class
- Types of pseudo-elements
- How to apply

Selectors

- What is selector?
- Types of selector
- How to apply selector

Web Technology

Combinators

- What is combinators?
- Types of combinators
- How it is related to selectors

Transition,Transform & Animation in css

- Applications of Transition,Transform & Animation
- Use of Transition,Transform & Animation
- Basic Project based on Transition,Transform & Animation.

Javascript

- Introduction:
- What is javascript?
- What is the difference between java & javascript
- Application of javascript
- Advantages & Disadvantages of javascript
- Types of javascript
- Datatypes in javascript
- Looping Statement
- Conditional Statement

Function & Arrays

- What is function
- What is array
- Types of function
- Methods of array

String & Object

- What is string
- Methods of string
- What is object
- How to create object in js

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Web Technology

Date & Math

- What is date method
- What is math method
- Methods of date & math

Advanced array methods in js

- Javascript Closure
- DOM elements in javascript
- Json in javascript
- Ajax in javascript
- Canvas using javascript

Collection in js

- What is collection
- Types of collection

Regular Expression in js

- What is regular expression
- How to create dynamic form in js

Date & Math

- What is date method
- What is math method
- Methods of date & math

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Core Java

Section 1

- **Introduction to programming**
- Introduction to java
- JDK installation
- Keywords, Identifiers, variables
- Operators, Method/Functions
- Flow Control Statements
- Arrays, Strings
- Interactive programs in java using Scanner

Section 3

- Java Built-in packages and API
- Overview of java API
- Object class
- String, String Buffer and String Builder
- Exception Handling
- Threads and multithreading
- Wrapper Classes
- Data Structures
- JAVA COLLECTION FRAMEWORKS***
- File Handling, Serialization
- Encapsulation

Section 2

- **Object Oriented Programming System**
- Classes and Objects
- Object creation
- Reference variable
- Global and local variables
- Constructors
- Aggregation
- Composition
- Inheritance ***
- Method Overloading
- Method Overriding
- Abstract classes
- Interfaces
- Typecasting
- JVM architecture
- Polymorphism
- Abstraction
- Java packages
- Access Specifies

JSP

Result Set

- How to handle the result set object
- How to process the result set object

SERVLET

- Introduction
- What is web browser?
- What is web resources?
- Types of web resources
- What is web server?
- Installing of apache tomcat web server

Web URL

- Web url structure.
- Query string.
- HTTP & HTTPS protocols.
- Key elements of HTTP request and HTTP response
- HTTP methods.
- Difference between GET and POST.

Closing of JDBC objects

- Why to close an object?
- How to close an object

About servlet

- Servlet introduction
- Creating the first servlet in web app
- Steps to create WAR file
- Build & Deployment process

Servlet Container

- About servlet containers & its advantages
- Request and response objects
- GetParameter() and getParameters() methods
- About XML
- About deployment descriptor(web.xml)

J2EE

Introduction to JAVA EE

- What is computer ?
- What is an application?
- Types of application?
- What is standalone application?
- What is web application?
- What is network?
- What is internet?
- What is intranet?
- What is server?
- What is database?
- What is an api?
- What is J2ee?
- Types of api's
- JAVA EE 3-tier architecture
- JAVA EE 2-tier architecture.

Drivers

- Introduction.
- What is a JAR file?
- About driver class
- How to load the driver class into the program
- Types of Driver

JDBC

- Introduction
- Steps to work with JDBC
- JDBC pre-requirements
- Installing MYSQL,DB server
- FIRST JDBC program

Db url

- What is url?
- Structure of db url

Connection interface

- Driver Manager class
- About the get connection method
- Connection object

JDBC objects and methods

- Introduction
- Dynamic and static sql queries
- Statement and prepared statement objects
- ExecuteQuery() and executeUpdate() methods

J2EE

JSP

Servlet Hierarchy

- Generic servlet
- HTTP Servlet
- Difference between Generic servlet and HTTP Servlet
- Servlet life cycle
- Single thread model servlets
- Servlet context and servlet config
- Redirect,Forward and Include

Cookies

- Introduction
- Steps to create a cookie in the servlet
- Types of cookies
- Life cycle of cookies
- Application of cookies

JSP

- Introduction
- How to create JSP
- Difference between Servlet and JSP

Attributes

- What is an attribute?
- Need of attributes
- Types of attributes

Session

- Introduction
- Steps to create a session in the webapp
- Types of session
- Life cycle of session
- Application of session

JSP Scripting Elements

- Scriptlet tag
- Expression tag
- Declaration tag

JSP

JSP implicit objects

- Request object
- Response object
- Config object
- Application object
- Session object

Jstl

- Introduction
- JSTL core tags
- JSTL function tags

Exception handling in JSP

- About isErrorPage and errorPage

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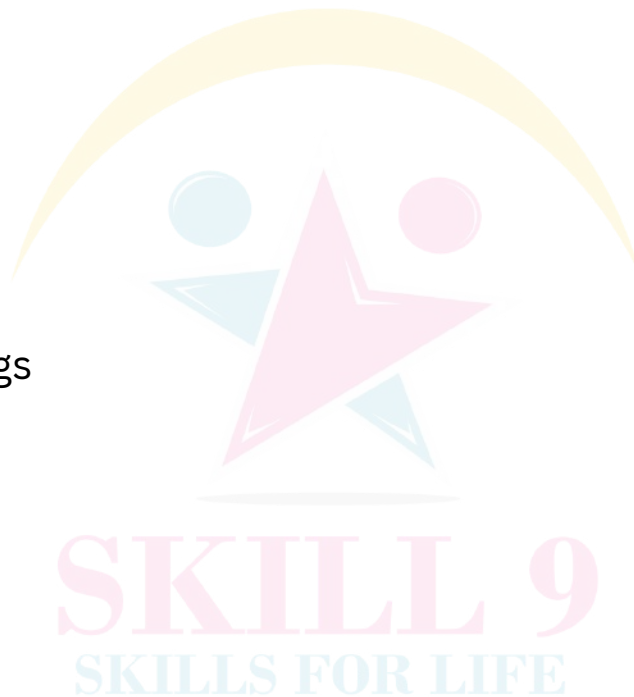
Frameworks

Hibernate

- Understand ORM and basics of Hibernate
- Understand and implement life cycle of Hibernate Persistence and Session Factory
- Implement Hibernate Mappings, Inheritance and Types
- Understand Hibernate Criteria and Query Language
- Exploring Hibernate Transactions, Filter and Performance
- Implement Hibernate Search and Validations
- Hibernate with NoSQL and Spring

Springs

- Introduction
- why spring
- Spring modulus
- Spring application
- Spring in eclipse

Hibernate

- MVC introduction
- multiple controllers
- model interface
- request Param annotation
- form tag library, text field
- form radio field, checkbox
- form drop-down list
- JDBC Template Example
- PreparedStatement
- ResultSetExtractor
- MVC CRUD Example
- spring MVC Validation

Spring IOC

- IOC container
- dependency injection
- constructor injection
- injection dependent object
- injection with collection
- constructor injection with map
- injection in inheritance been
- setter injection
- setter injection dependent object
- setter injection with collection
- setter injection with map
- injection versus setter injection
- factory method

Database

Introduction

- What Is Database?
- What is Database Management System (DBMS)?
- What is Relational Model ?
- Introduction to RDBMS .
- Brief on E.F CODD .

Datatypes and Constraints

- What are Datatypes ?
- Types and Examples .
- How to use .
- What are Constraints?
- Types and Examples.
- How to use.

Statements in SQL

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Transaction Control Language (TCL)
- Data Control Language (DCL)
- Data Query Language (DQL)

Software installation

- Installing and set up of software
- Working on Oracle 10g.

Operators

- Types and Examples

Data Query Language (DQL)

- Select
- From
- Having
- Where
- Group By
- Order By

Functions in SQL

- Single Row Functions
- Multi Row Functions
  - Max ()
  - Min ()
  - Count ()
  - Sum ()
  - Avg ()

Database

Sub Query

- Introduction to Sub Query
- Working of Sub Query
- Query Writing and Execution
- Types of Sub Query
  - Single Row Sub Query
  - Multi Row Sub Query
- Nested Sub Query.

JOINS

- What Is Join?
- Types of Joins.
- Cartesian Join
- Inner Join
- Outer Join
- Self-Join
- Queries and Examples.

Data Manipulation Language (DML)

- Insert
- Update
- Delete

Pseudo Columns

- Introduction on Pseudo Columns
- ROWID
- ROWNUM
- Working and Usage

Co- Related Sub Query

- Working and Examples

Data Definition Language (DDL)

- Create
- Rename
- Alter
- Truncate
- Drop

Database

Transaction Control Language (TCL)

- Commit
- Save point
- Rollback

Normalization

- Introduction to Normalization
- Types of Normal Forms
- Examples.

Data Control Language (DCL)

- Grant
- Revoke

E R Diagrams

- Introduction to ERD
- Examples.